



Clean Version of Pending Claims

5. A protein or soluble fragment thereof produced by
  - a) introducing an expression vector into an appropriate transfection host cell, wherein the expression vector comprises a DNA encoding a protein having SEQ ID NO:2 or a soluble fragment thereof which is capable of specifically binding a cell membrane ligand for SEQ ID NO:2;
  - (b) growing said transfected cell in appropriate culture media and
  - (c) purifying the protein or the soluble fragment thereof.
6. An isolated protein having the amino acid sequence of SEQ ID NO:2 or a fragment thereof which has the extracellular domain of SEQ ID NO:2.
24. A purified soluble H4-1BB polypeptide, wherein said polypeptide comprises the extracellular domain of SEQ ID NO:2 or a fragment of the extracellular domain which is capable of specifically binding a cell membrane ligand for SEQ ID NO:2.
26. A composition comprising a soluble H4-1BB of claim 24 in admixture with a suitable diluent, carrier, or excipient.
27. A soluble H4-1BB protein produced by
  - a) introducing an expression vector into an appropriate host cell to yield a transfected host cell, wherein the expression vector comprises a DNA molecule encoding the extracellular domain of H4-1BB having SEQ ID NO:2 or a fragment of the extracellular domain which is capable of specifically binding a cell membrane ligand for SEQ ID NO:2;
  - b) recovering the soluble protein from the host cell.
28. The soluble H4-1BB protein of claim 27 wherein the DNA molecule comprises any one of SEQ ID NO:1, SEQ ID NO:7, or SEQ ID NO:8.

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29. The soluble H4-1BB protein of claim 27 wherein the DNA molecule encodes amino acid residues 1-186 of SEQ ID NO:2.

30. The soluble H4-1BB protein of claim 24 which is encoded by a DNA molecule comprising any one of SEQ ID NO:1, SEQ ID NO:7, or SEQ ID NO:8.

31. The soluble H4-1BB protein of claim 24 which comprises amino acid residues 1-186 of SEQ ID NO:2.

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